

Abstract

The invention relates to a fuel injection device (10) for an internal combustion engine, having two valve elements (16, 18), each of which has a hydraulic control surface (32, 34) acting in the closing direction. These control surfaces (32, 34) are associated with a hydraulic control chamber (38). In addition, a control valve (72) is provided, which influences the pressure in the control chamber (38), and loading devices (20, 22) are provided, which are able to act on the valve elements (16, 18) in the opening direction. The valve elements (16, 18) react at different hydraulic opening pressures prevailing in the control chamber (38). According to the invention, the control valve (72) is able to set at least three different pressure levels in the control chamber (38): all of the valve elements (16, 18) are closed at a comparatively high pressure level; one valve element (18) is open at a medium pressure level; and all of the valve elements (16, 18) are open at a comparatively low pressure level.

(Fig. 5)